Scenario

Write a program that will capture 2 things from keyboard.

1. Count of integers

2. Input each integer one by one

Assignment 1

Code should capture all the integers and create an array. Output should be sorted array.

Assignment 2

Re-implement above (assignment 1) for floating point numbers.

Assignment 3

Output maximum and minimum number from an array of integers.

Assignment 4

Remove number from an array from specific index position. Program should ask (take input) user for

specific index position via keyboard. If index position is out-of-bounds then, program should display

error message in console.

Assignment 5

Insert number in array at specific index position. Program should ask (take input) user for specific

index position via keyboard. If index position is out-of-bounds then, program should display error

message in console.

**import** java.util.Scanner;

**public** **class** Array {

**public** **static** **void** main(String[] args) {

**int** limit,flag=0,location=0;

**int**[] array=**new** **int**[20];

Scanner scanner=**new** Scanner(System.***in***);

System.***out***.println("Enter the limit of numbers:");

//limit=Integer.parseInt(scanner.next());

limit=scanner.nextInt();

System.***out***.println("Enter Elements:");

**for**(**int** i=0;i<limit;i++) {

array[i]=scanner.nextInt();

}

**for**(**int** i=0;i<limit;i++) {

**for**(**int** j=i+1;j<limit;j++) {

**if**(array[i]>array[j] )

{

**int** t=array[i];

array[i]=array[j];

array[j]=t;

}

}

}

**for**(**int** i=0;i<limit;i++) {

System.***out***.println(array[i]);

}

System.***out***.println("The minimum value is "+array[0]);

System.***out***.println("The maximum value is "+array[limit-1]);

System.***out***.println("Enter the array index to be deleted");

**int** arrayIndex=scanner.nextInt();

**for**(**int** i = 0;i<limit;i++)

{

**if**(i==arrayIndex)

{

flag=1;

location = i;

**break**;

}

**else**

{

flag=0;

}

}

**if**(flag==1) {

**for**(**int** i=location+1;i<limit;i++)

{

array[i-1]=array[i];

}

System.***out***.println("After Deletion:");

**for**(**int** i=0;i<limit-1;i++)

{

System.***out***.println(array[i]);

}

}

**else** {

System.***out***.println("Array index not found");

} }}

**import** java.util.Scanner;

**public** **class** FloatArray {

**public** **static** **void** main(String[] args) {

**int** limit;

**float**[] array=**new** **float**[20];

Scanner scanner=**new** Scanner(System.***in***);

System.***out***.println("Enter the limit of numbers:");

//limit=Integer.parseInt(scanner.next());

limit=scanner.nextInt();

System.***out***.println("Enter Elements:");

**for**(**int** i=0;i<limit;i++) {

array[i]=scanner.nextFloat();

}

**for**(**int** i=0;i<limit;i++) {

**for**(**int** j=i+1;j<limit;j++) {

**if**(array[i]>array[j] )

{

**float** t=array[i];

array[i]=array[j];

array[j]=t;

}

}

}

**for**(**int** i=0;i<limit;i++) {

System.***out***.println(array[i]);

}

}

}